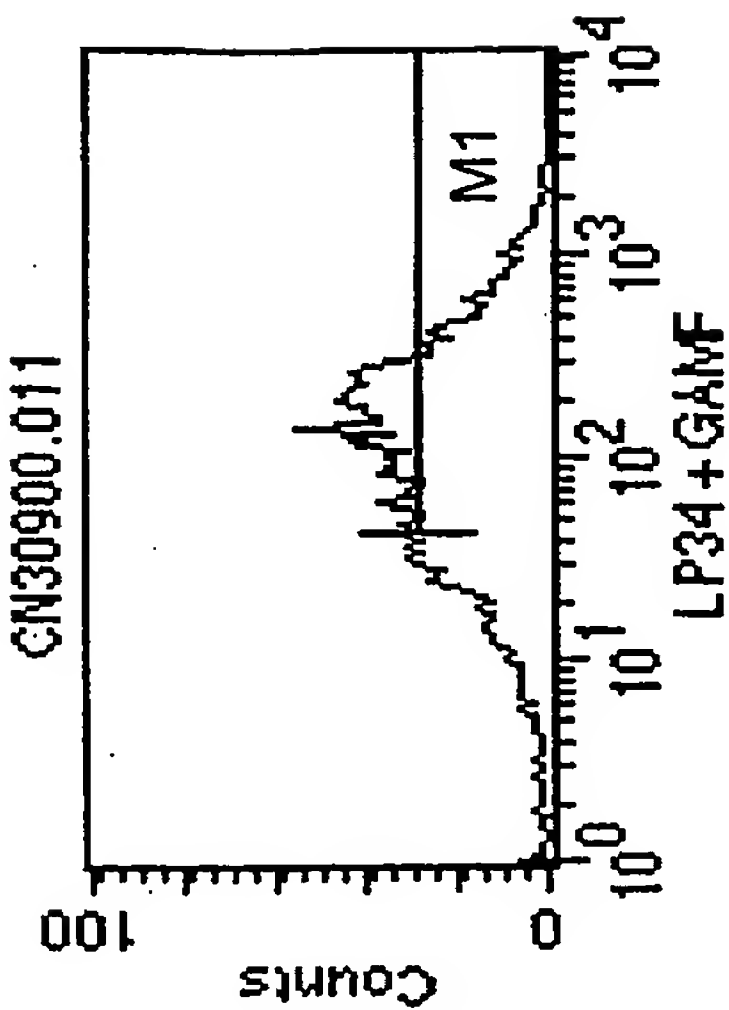
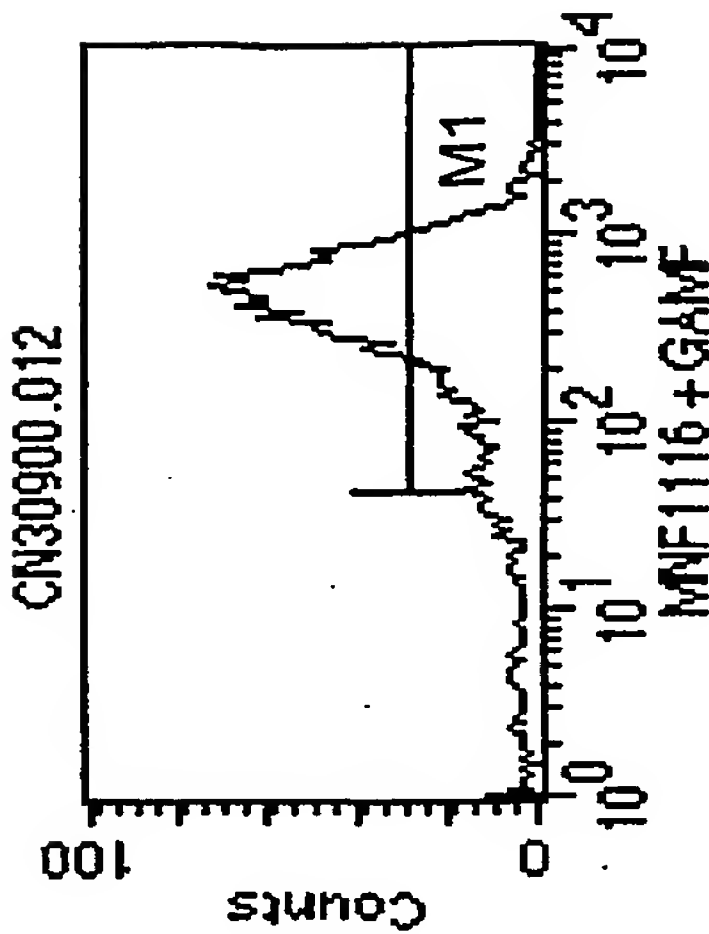


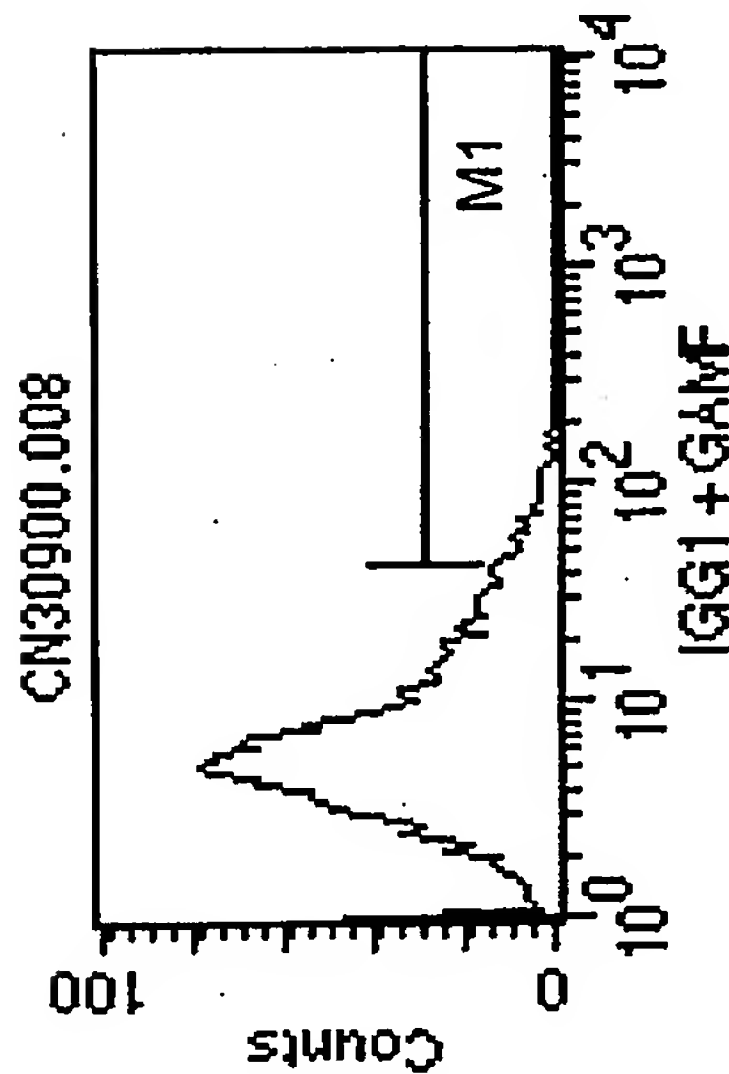
FIG. 1A



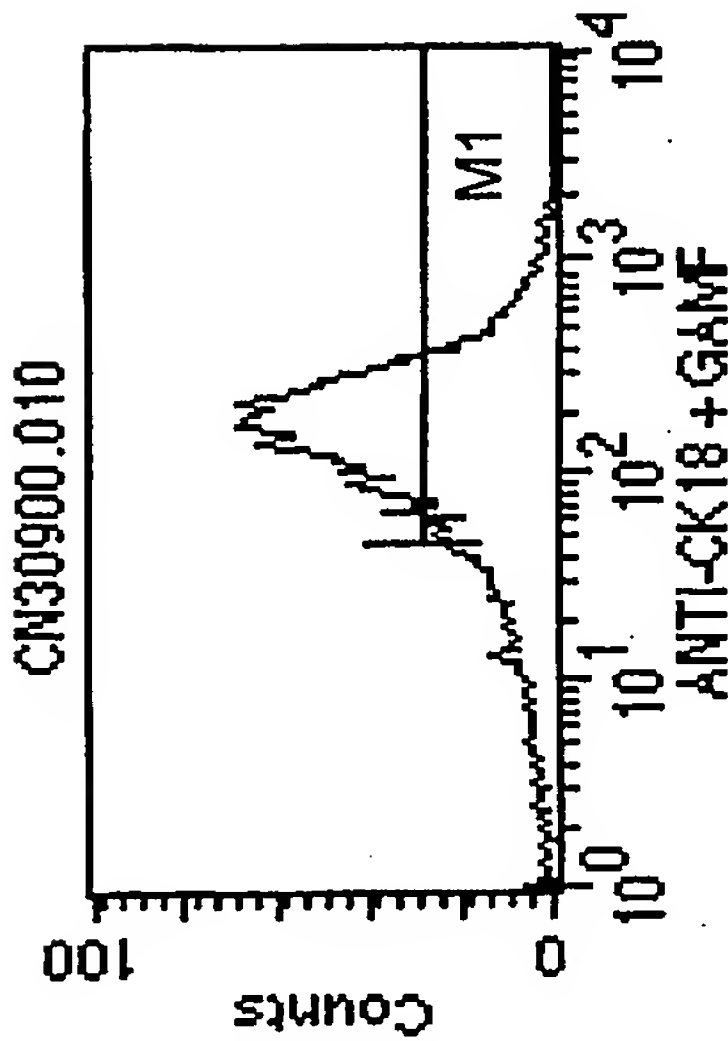
LP34



MNF1116



CK18



LP34

FIG. 1B

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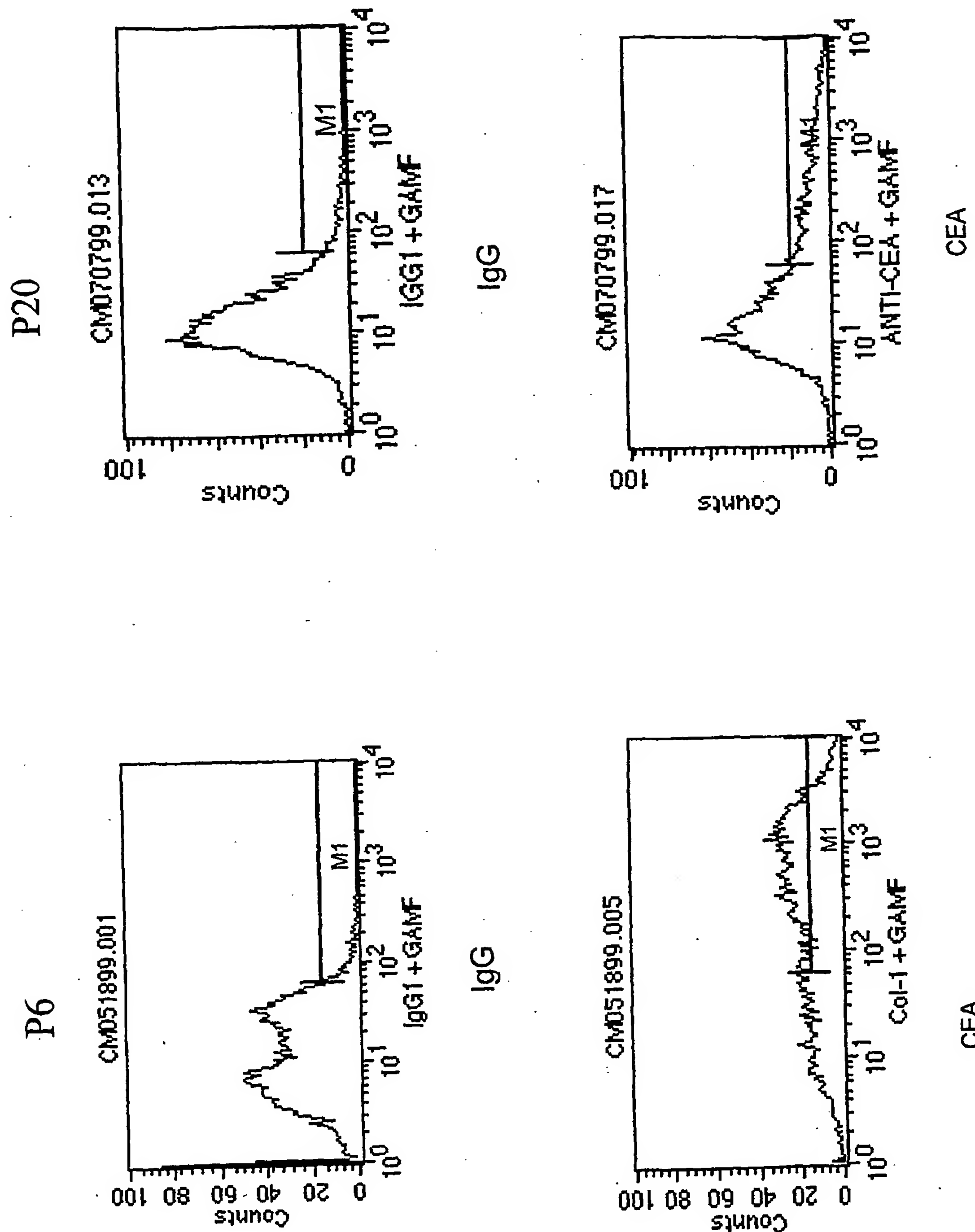


FIG 1C

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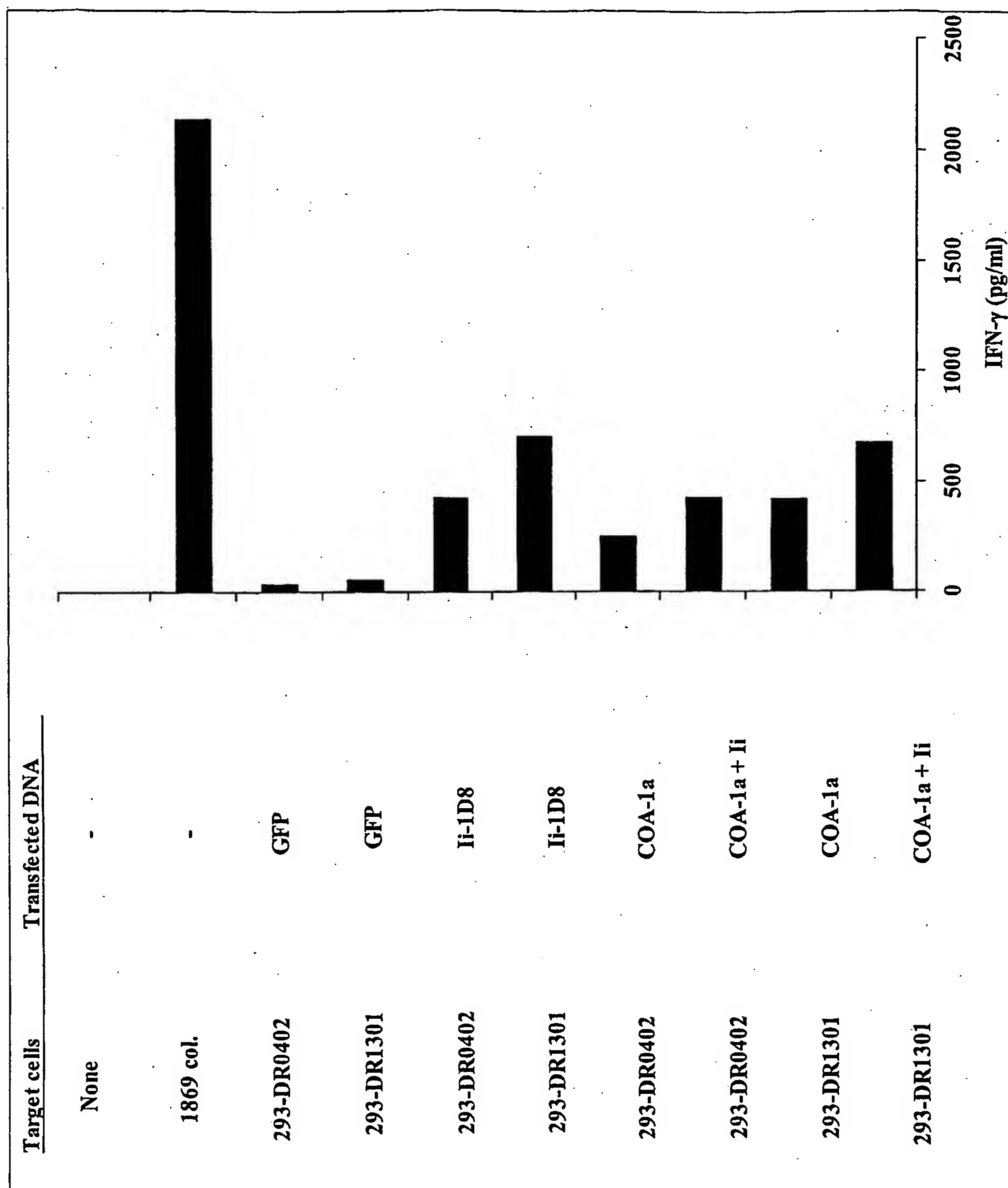


FIG. 2

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MAFMTRKLWD LEQQVKAQTD EILSKDQKIA ALEDLVQTLR PHPAEATLQR QEELETMCVQ 60
LQRQVREMER FLSDYGLQWV GEPMDQEDSE SKTVSEHGER DWMTAKKFWK PGDSLAPPEV 120
DFDRLLASLQ DLSELVVEGD TQVTPVPGGA RLRTLEPIPL KLYRNGIMMF DGPFQPFYDP 180
STQRCLRDIL DGFFPSELQR LYPNGVPFKV SDLRNQVYLE DGLDPFPGEG RVVGRQRMHK 240
ALDRVEEHPG SRMTAEKFLN RLPKFVIRQG EVIDIRGPIR DTLQNCCLP ARIQEIVVET 300
PTLAAERERS QESPNTAPP LSMLRIKSEN GEQAFLLMMQ PDNTIGDVRA LLAQARVMDA 360
SAFEIFSTFP PTLYQDDTLT LQAGLVPKA ALLLRARR^A KSSLKFSPGP CPGPGPGPSP 420
GPGPGSSPCP GPSPPSQ 437

Alanine at
position 399

FIG. 3

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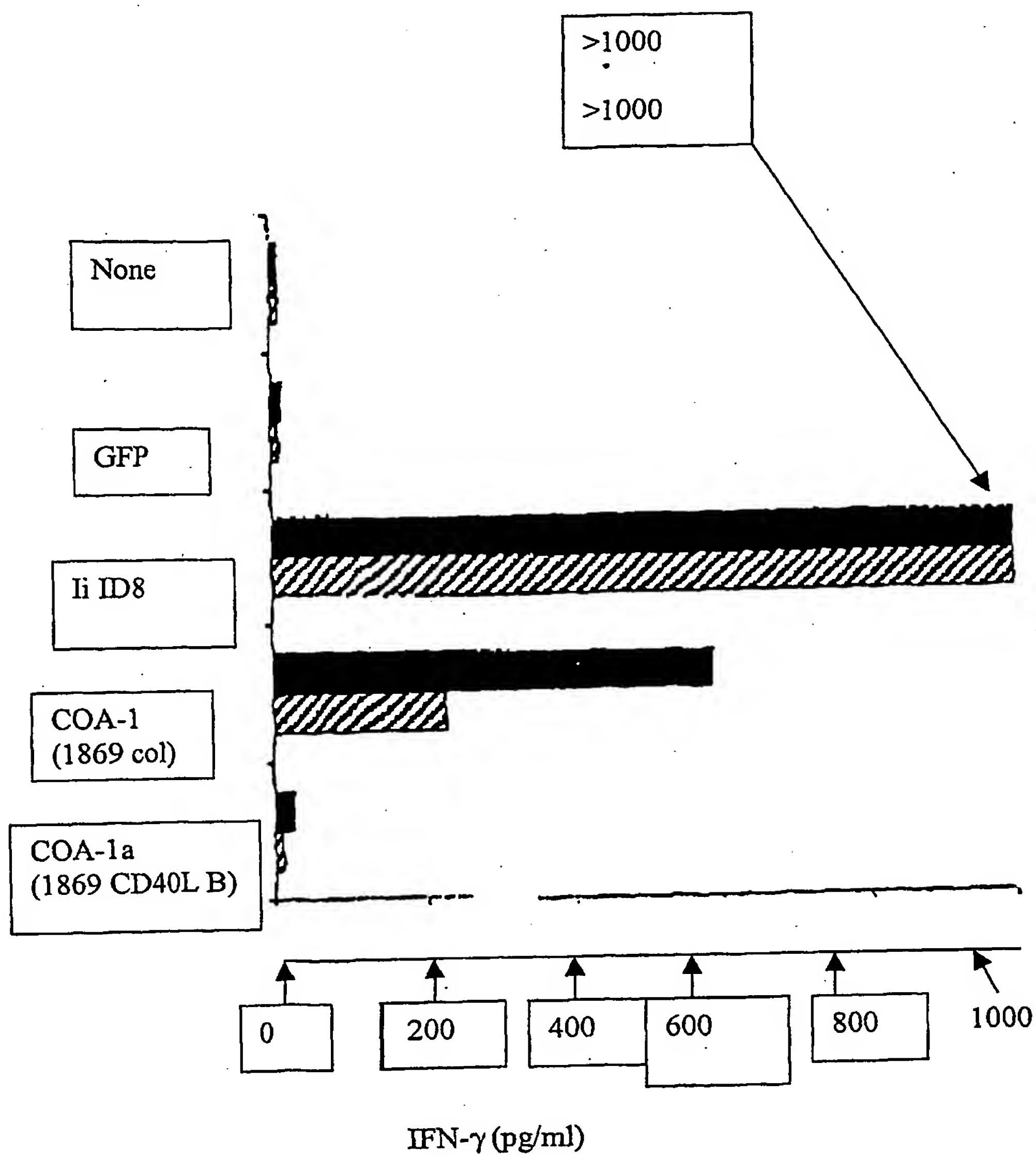


FIG. 4

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cgctgcggga cggctagcgg ccctgcgtgg aggcgaggaa tccgcatacta tggagatgtc 60
 cctgcatccc atgactcgga gctg atg gcc ttc atg acg agg aag ttg tgg 111
 Met Ala Phe Met Thr Arg Lys Leu Trp
 1 5
 gac ctg gag cag cag gtg aag gcc cag act gat gag ata ctg tcc aag 159
 Asp Leu Glu Gln Gln Val Lys Ala Gln Thr Asp Glu Ile Leu Ser Lys
 10 15 20 25
 gat cag aag ata gcg gcc cta gag gac ctg gtg cag acc ctc cgg cca 207
 Asp Gln Lys Ile Ala Ala Leu Glu Asp Leu Val Gln Thr Leu Arg Pro
 30 35 40
 cac cca gcc gag gca acc ctg cag cgg cag gag gaa ctg gag acg atg 255
 His Pro Ala Glu Ala Thr Leu Gln Arg Gln Glu Glu Leu Glu Thr Met
 45 50 55
 tgt gtg cag ctg cag cgg cag gtc agg gag atg gag cgg ttc ctc agt 303
 Cys Val Gln Leu Gln Arg Gln Val Arg Glu Met Glu Arg Phe Leu Ser
 60 65 70
 gac tat ggc ctg cag tgg gtg ggc gag ccc atg gac cag gag gac tca 351
 Asp Tyr Gly Leu Gln Trp Val Gly Glu Pro Met Asp Gln Glu Asp Ser
 75 80 85
 gag agc aag aca gtc tca gag cat ggc gag agg gac tgg atg aca gcc 399
 Glu Ser Lys Thr Val Ser Glu His Gly Glu Arg Asp Trp Met Thr Ala
 90 95 100 105
 aag aag ttc tgg aag cca ggg gac tca ttg gcg ccc cct gag gtg gac 447
 Lys Lys Phe Trp Lys Pro Gly Asp Ser Leu Ala Pro Pro Glu Val Asp
 110 115 120
 ttt gac agg ctg ctg gcc agc ctg cag gat ctt agt gag ctg gtg gta 495
 Phe Asp Arg Leu Leu Ala Ser Leu Gln Asp Leu Ser Glu Leu Val Val
 125 130 135
 gag ggt gac acc caa gtg aca cca gtg ccc ggc ggg gca cgg ctg cgt 543
 Glu Gly Asp Thr Gln Val Thr Pro Val Pro Gly Gly Ala Arg Leu Arg
 140 145 150
 acc ctc gag ccc atc ccg ctg aag ctc tac cgg aat ggc atc atg atg 591
 Thr Leu Glu Pro Ile Pro Leu Lys Leu Tyr Arg Asn Gly Ile Met Met
 155 160 165
 ttc gac ggg ccc ttc cag ccc ttc tac gat ccc tcc aca cag cgc tgc 639
 Phe Asp Gly Pro Phe Gln Pro Phe Tyr Asp Pro Ser Thr Gln Arg Cys
 170 175 180 185
 ctc cga gac ata ttg gat ggc ttc ttt ccc tca gag ctc cag cga ctg 687
 Leu Arg Asp Ile Leu Asp Gly Phe Phe Pro Ser Glu Leu Gln Arg Leu
 190 195 200
 tac ccc aat ggg gtc ccc ttt aag gtg agt gac ttg cgc aat cag gtc 735
 Tyr Pro Asn Gly Val Pro Phe Lys Val Ser Asp Leu Arg Asn Gln Val
 205 210 215

FIG. 5

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tac	ctg	gag	gat	gga	ctg	gac	ccc	ttc	cca	ggc	gag	ggc	cgt	gtg	gtg	783
Tyr	Leu	Glu	Asp	Gly	Leu	Asp	Pro	Phe	Pro	Gly	Glu	Gly	Arg	Val	Val	
	220						225					230				
ggc	agg	cag	cgg	atg	cac	aag	gcc	ttg	gac	agg	gtg	gag	gag	cac	cca	831
Gly	Arg	Gln	Arg	Met	His	Lys	Ala	Leu	Asp	Arg	Val	Glu	Glu	His	Pro	
	235					240					245					
ggc	tcc	agg	atg	act	gct	gag	aaa	ttt	ctg	aac	agg	ctc	ccc	aag	ttt	879
Gly	Ser	Arg	Met	Thr	Ala	Glu	Lys	Phe	Leu	Asn	Arg	Leu	Pro	Lys	Phe	
	250				255					260					265	
gtg	atc	cgg	caa	ggc	gag	gtg	att	gac	atc	cgg	ggc	ccc	atc	agg	gac	927
Val	Ile	Arg	Gln	Gly	Glu	Val	Ile	Asp	Ile	Arg	Gly	Pro	Ile	Arg	Asp	
				270				275						280		
acc	ttg	cag	aac	tgc	tgc	cca	ttg	cct	gcc	cgg	atc	cag	gag	att	gtg	975
Thr	Leu	Gln	Asn	Cys	Cys	Pro	Leu	Pro	Ala	Arg	Ile	Gln	Glu	Ile	Val	
			285					290					295			
gtg	gag	acg	ccc	acc	ttg	gcc	gct	gag	cga	gag	agg	agc	cag	gag	tca	1023
Val	Glu	Thr	Pro	Thr	Leu	Ala	Ala	Glu	Arg	Glu	Arg	Ser	Gln	Glu	Ser	
		300					305					310				
ccc	aac	aca	ccg	gca	ccc	ccg	ctc	tcc	atg	ctg	cgc	atc	aag	tct	gag	1071
Pro	Asn	Thr	Pro	Ala	Pro	Pro	Leu	Ser	Met	Leu	Arg	Ile	Lys	Ser	Glu	
	315					320					325					
aat	ggg	gaa	cag	gcc	ttc	cta	ctg	atg	atg	cag	cct	gac	aac	acc	att	1119
Asn	Gly	Glu	Gln	Ala	Phe	Leu	Leu	Met	Met	Gln	Pro	Asp	Asn	Thr	Ile	
	330				335					340					345	
ggg	gac	gtg	cga	gct	ctg	cta	gcg	cag	gcc	agg	gtc	atg	gat	gcc	tct	1167
Gly	Asp	Val	Arg	Ala	Leu	Leu	Ala	Gln	Ala	Arg	Val	Met	Asp	Ala	Ser	
				350					355					360		
gcc	ttt	gag	atc	ttc	agc	aca	ttc	ccg	ccc	acc	ctc	tac	cag	gac	gat	1215
Ala	Phe	Glu	Ile	Phe	Ser	Thr	Phe	Pro	Pro	Thr	Leu	Tyr	Gln	Asp	Asp	
			365					370					375			
aca	ctc	acg	ctg	cag	gct	gca	ggc	ctt	gtg	ccc	aaa	gca	gca	ctg	ctg	1263
Thr	Leu	Thr	Leu	Gln	Ala	Ala	Gly	Leu	Val	Pro	Lys	Ala	Ala	Leu	Leu	
		380					385					390				

Cytosine at position 1280

ctg cgg gca cgc cga gCc ccg aag tcc agc ctg aaa ttc agt cct ggt
1311

Leu Arg Ala Arg Arg **Ala** Pro Lys Ser Ser Leu Lys Phe Ser Pro Gly
395 400 405

Alanine at position 399

ccc	tgt	ccc	ggt	ccc	ggt	ccc	ggc	ccc	agt	ccc	ggt	ccc	ggt	ccc	ggc	1359
Pro	Cys	Pro	Gly	Pro	Gly	Pro	Gly	Pro	Ser	Pro	Gly	Pro	Gly	Pro	Gly	
	410				415				420						425	

FIG. 5 cont.

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tcc agt ccc tgt ccc gga ccc agt ccc agc ccc caa taaagcaccc	1405
Ser Ser Pro Cys Pro Gly Pro Ser Pro Ser Pro Gln	
430 435	
acccccctc	1413

FIG. 5 cont.